AHMED NASSR

GRADE 4

MATH

SUMMER COURSE

Learn • Practice • Succeed

- NUMBERS & OPERATIONS
- GEOMETRY & MEASUREMENT
- LOGIC & THINKING
- PROBLEM SOLVING

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Chapter (1): Numbers till 999,999

Topics which are covered in this chapter:

1- Place value and Value of numbers
2- Forms of Numbers
3- Comparing between numbers
4- Ordering numbers
5- Front-end estimation and Rounding

Chapter (2): Adding & subtracting

Topics which are covered in this chapter:

1- Adding and Subtracting with regrouping.
2- Adding and Subtracting without regrouping.
3- Estimate and Rounding the result of Addition and Subtraction.
4- Story problems.

Chapter (3): Multiplying and Division

Topics which are covered in this chapter:

1- Time table till table 9.
2- Multiplying by 10.
3- Division by 1-digit.
4- Identifying Multiple and factors.
5- Story problems

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Chapter (4): Measurements

Topics which are covered in this chapter:

1- Identifying Length and Capacity.

2- Relation between units of length (mm, cm, m).

3- Relation between units of Capacity (mL, L).

4- Identifying Time.

5- Relation between units of time.

Chapter (5): Polygon, Perimeter & Area

Topics which are covered in this chapter:

1- Identifying polygons.

2- Properties of parallelograms.

3- Identifying Perimeter and Area of Square.

4- Identifying Perimeter and Area of Rectangle.

5- Story problems

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Numbers Till 999,999

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Remember

The value of each digit in any number depends on its place in this number.

327,068
3 is in the Hundred Thousand place its value is 300,000
2 is in the Ten Thousand place its value is 20,000
7 is in the Thousand place its value is 7,000
0 is in the Hundred place its value is 0
6 is in the ten place its value is 60
8 is in the Ones place its value is 8

Ordering

Ascending order

Ascending order is ordering numbers from the smallest to the greatest.

Ex: 5,533 → 12,643 → 28,324 → 46,636

Descending order

Descending order is ordering numbers from the greatest to the smallest.

Ex: 90,836 → 70,373 → 25,372 → 8,999

Forms of 54,381 number

Standard form: 54,381

Word form: Fifty four thousands, three hundred eighty-one.

Expanded form: 50,000 + 4,000 + 300 + 80 + 1

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Q1: Choose the correct answer:

1. The value of the digit 0 in the number 9,502 is .....
   (a) 0 (b) 10 (c) 100 (d) tens
2. 7,000 + 500 + 2 = ...
   (a) 752 (b) 7,520 (c) 7,250 (d) 7,502
3. 8 thousands, 6 tens and 3 ones = ...
   (a) 863 (b) 8,063 (c) 8,603 (d) 8,630
4. 6,000 = ... thousands.
   (a) 6 (b) 60 (c) 600 (d) 6,000
5. The place value of digit 3 in the number 35,521 is ..... .
   (a) tens (b) thousands (c) hundreds (d) ten thousands
6. The smallest number formed from 6-digit is ..... .
   (a) 111,111 (b) 100,000 (c) 999,999 (d) 102,345
7. 90 + 30,000 + 4,000 + 800 = ...
   (a) 9,348 (b) 34,980 (c) 34,809 (d) 34,890
8. Sixty thousand, two hundred sixty in standard form = ...
   (a) 60,216 (b) 60,260 (c) 602,006 (d) 16,260
9. The value of the digit 3 in the number 960,341 is ..... .
   (a) 3 (b) 30 (c) 300 (d) 3,000
10. 19,562 ◯ 9,000 + 10,000 + 60 + 600
    (a) > (b) < (c) = (d) otherwise
11. The least number formed from the digits 7, 6, 0, 4, 8 and 2 is ..... .
    (a) 24,678 (b) 204,678 (c) 246,780 (d) 876,420

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12 The number that comes just after 209,999 is ..... .

(a) 300,000 (b) 209,998 (c) 210,000 (d) 201,000

13 Three hundred three thousand, three hundred and three = ...

(a) 300,033 (b) 330,330 (c) 303,303 (d) 330,303

14 The largest 5-different-digit number is ..... .

(a) 98,754 (b) 98,765 (c) 99,999 (d) 10,234

15 200 + 0 + 0 + 5 = ...

(a) 200,005 (b) 205 (c) 200,500 (d) 2,005

16 The smallest 5-different-digit number is ..... .

(a) 98,765 (b) 12,345 (c) 10,234 (d) 100,000

17 Hundred thousands is the smallest number formed from .....-digit.

(a) 100,000 (b) 10 (c) 6 (d) 5

18 700,000 + 70,000 + 5,000 + 800 + 50 + 3 = ...

(a) 77,583 (b) 707,583 (c) 775,853 (d) 757,853

19 370 thousands = ... hundreds

(a) 37 (b) 370 (c) 3,700 (d) 37,000

20 The value of the digit 3 in the number 137 hundreds is ..... .

(a) 30 (b) 300 (c) 3,000 (d) 30,000

21 3,800 hundreds ◯ 750 thousands

(a) > (b) < (c) = (d) otherwise

22 Five hundred eleven thousand, three hundred, thirty-four in standard form is ..... .

(a) 15,343 (b) 51,334 (c) 511,343 (d) 511,334

23 The greatest 6-digit number formed from 7, 8, 5, 4, 0 and 9 is ..... .

(a) 405,789 (b) 540,789 (c) 987,450 (d) 987,540

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Q2: Complete the following:

1. The value of the digit 7 in 79,159 is ..... .
2. ..... comes right before 15,200
3. 552,159 = ... Tens + ... Thousands + ... Ones + ... Hundreds.
4. 98 Thousands + 6 Ones + 5 Tens + 7 Hundreds = ...
5. ..... is the smallest 4-digit number.
6. 700,618 (Word Form): ..... .
7. The smallest 4-different digit number is ..... .
8. 170 tens = ... hundreds
9. Two hundred sixty-five thousand, one hundred seventeen = ...
10. 7,000 + 30 + 8 = ... (in standard form)
11. 3,781 = 1 + ... + 700 + ...
12. The greatest 4-digit even number is ..... .
13. 4,925 = 4,000 + 900 + ... + ...
14. ..... = 700 tens
15. The greatest number formed from 4-digit is ..... .
16. 20 hundreds = ... thousands
17. The digit which represents the ten thousand in the number 356,217 is ..... .
18. If the value of a digit is 700,000, then its place value is ..... .
19. Ten thousands is the smallest number formed from ..... -digits
20. 95,683 = ... + ... + ... + ... + ...

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Q3: Answer the following:

1. Compare using (<, =, or >):

(a) 7,500 hundred ◯ 750 thousands

(b) 322,467 ◯ 322,647

(d) 3 + 500 + 2,000 ◯ 3,520

(d) 15,000 ◯ 150 hundred

(e) Ninety thousand and nine ◯ 900,009

(f) 555,301 ◯ 555,310

2. Write the numbers in order from least to greatest.

(a) 500,368 , 500,638 , 500,863 , 500,386 , 500,683 .

The order: ..... , ... , ... , ... , ...

(b) 10,000 , 999 , 6,000 , 50,000 , 200.

The order: ..... , ... , ... , ... , ...

(c) 32,023 , 98,123 , 75,023 , 54,987 , 20,368 .

The order: ..... , ... , ... , ... , ...

3. Write the numbers in descending order.

(a) 42,159 , 42,951 , 42,519 , 52,915 , 42,195 .

The order: ..... , ... , ... , ... , ...

(b) 9,201 , 10,201 , 107,201 , 19,201 , 201,201.

The order: ..... , ... , ... , ... , ...

(c) 12,321 , 9,123 , 75,312 , 9,132 , 21,321 .

The order: ..... , ... , ... , ... , ...

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4) Rearrange the digits 4, 5, 0, 9 to get the greatest and the smallest number.

- The smallest number: ..... .
- The greatest number: ..... .

5) Write the following in expanded form.

a) 52,025 = ...

b) 9 thousands, 7 hundreds and 2 ones = ...

c) Two thousand, seventeen = ...

d) 4 tens,3 thousands and 6 ones = ...

e) Three hundred one thousand, thirteen = ...

6) What is the number that has 5 Thousands, 7 Hundreds, 6 Tens, and 4 Ones?

..... .

7) Complete the following table:

	Number	Value of the circled digit	Place value of the circled digit
a	542,5(2)4	.....	.....
b	(7)2,053	.....	.....
c	130,01(4)	.....	.....
d	1(0)2,213	.....	.....
e	31,(1)03	.....	.....

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Remember

Rounding means changing a number to the nearest 10 or the nearest 100 to make it easier to estimate.

Rounding to the Nearest 10

Look at the Ones digit:

- If it is 0, 1, 2, 3, or 4 → round down (keep the Tens digit, change Ones to 0)
- If it is 5, 6, 7, 8, or 9 → round up (add 1 to the Tens digit, change Ones to 0)

Example 1

Round 47 to the nearest 10.

4	7
Tens	Ones

Ones digit is 7 (5 or more) → round up → 50

Example 2

Round 82 to the nearest 10.

8	2
Tens	Ones

Ones digit is 2 (less than 5) → round down → 80

Rounding to the Nearest 100

Look at the Tens digit:

- If it is 0, 1, 2, 3, or 4 → round down (keep the Hundreds digit, change Tens and Ones to 0)
- If it is 5, 6, 7, 8, or 9 → round up (add 1 to the Hundreds digit, change Tens and Ones to 0)

Example 3

Round 243 to the nearest 100.

2	4	3
Hundreds	Tens	Ones

Tens digit is 4 (less than 5) → round down → 200

Example 4

Round 678 to the nearest 100.

6	7	8
Hundreds	Tens	Ones

Tens digit is 7 (5 or more) → round up → 700

Practice Examples

Round to the nearest 10:

1) 36 → 40
2) 51 → 50
3) 74 → 70
4) 98 → 100
5) 123 → 120

Round to the nearest 100:

1) 149 → 100
2) 256 → 300
3) 483 → 500
4) 672 → 700
5) 935 → 900

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Q1: Answer the following:

(1) Estimate the following:

(a) 75,051 ⟶ ..... .
(b) 65,571 ⟶ ..... .
(c) 109,031 ⟶ ..... .
(d) 521 ⟶ ..... .
(e) 9,999 ⟶ ..... .
(f) 7,991 ⟶ ..... .
(g) 69,091 ⟶ ..... .
(h) 19 ⟶ ..... .

(2) Round the following to the nearest ten:

(a) 15,149 ⟶ ..... .
(b) 83,016 ⟶ ..... .
(c) 229,034 ⟶ ..... .
(d) 507 ⟶ ..... .
(e) 1,999 ⟶ ..... .
(f) 7,344 ⟶ ..... .
(g) 18,095 ⟶ ..... .
(h) 7 ⟶ ..... .

(3) Round the following to the nearest hundred:

(a) 87,119 ⟶ ..... .
(b) 35,067 ⟶ ..... .
(c) 269,074 ⟶ ..... .
(d) 507 ⟶ ..... .
(e) 9,999 ⟶ ..... .
(f) 3,954 ⟶ ..... .
(g) 23,755 ⟶ ..... .
(h) 25 ⟶ ..... .

(4) Complete the following table:

	Number	Front-end estimation	Round to Nearest 10	Round to Nearest 100
(a)	54,215	.....	.....	.....
(b)	4,953	.....	.....	.....
(c)	2,099	.....	.....	.....
(d)	458,219	.....	.....	.....
(e)	9,999	.....	.....	.....

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Adding & subtracting

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Remember

When we add or subtract large numbers, we line up the digits by place value.

When we cannot add or subtract in a column, we regroup (or borrow).

Adding with Regrouping (Carrying)

If the sum of a column is 10 or more,
we write the ones digit in that column
and carry the tens digit to the next column on the left.

Example 1

$$\begin{array}{r} 34,587 \\ +\ 26,748 \\ \hline 61,335 \end{array}$$

$$\begin{array}{r} {\scriptstyle 1\ \ 1\ \ 1} \\ 34,587 \\ +\ 26,748 \\ \hline 0735 \end{array}$$

7+8=15 → write 5, carry 1
8+4+1=13 → write 3, carry 1
5+7+1=13 → write 3, carry 1
4+6+1=11 → write 1, carry 1
3+2+1=6 → write 6

Subtracting with Regrouping (Borrowing)

If the top digit is smaller than the bottom digit,
we borrow 1 from the next column on the left.
The borrowed 1 becomes 10 in the current column.

Example 2

$$\begin{array}{r} 72,463 \\ -\ 28,758 \\ \hline 43,705 \end{array}$$

$$\begin{array}{r} {\scriptstyle 1\ \ 1\ \ 1} \\ 6\ 12\ 14\ 13 \\ 72,463 \\ -\ 28,758 \\ \hline 43,705 \end{array}$$

13−8=5
14−5=9
12−7=5
6−2=4

Practice Examples (with Regrouping)

Add:

1) 45,678 + 27,345 = 73,023
2) 62,495 + 18,756 = 81,251
3) 37,289 + 44,811 = 82,100

Subtract:

1) 63,854 − 28,475 = 35,379
2) 75,302 − 46,789 = 28,513
3) 90,615 − 37,268 = 53,347

Rounding (to estimate)

We can round numbers to the nearest 10,
100, or 1,000 to make estimating easier.

Example 3 Round each number as directed:

	Number	Nearest 10	Nearest 100	Nearest 1,000
1)	47,382	47,380	47,400	47,000
2)	86,759	86,760	86,800	87,000
3)	12,945	12,950	12,900	13,000

Estimate then Solve

Round to the nearest 1,000, then estimate the answer.
After that, find the exact answer.

1. 38,764 + 24,593
   Estimate: 39,000 + 25,000 = 64,000
   Exact Answer: 63,357

2. 72,318 − 28,467
   Estimate: 72,000 − 28,000 = 44,000
   Exact Answer: 43,851

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Q1: Find the result of the following:

1. 15,124 + 3,518 = ...
2. 4,259 + 358 = ...
3. 321,826 + 18,792 = ...
4. 22,009 + 259 = ...
5. 21,678 + 5,624 = ...
6. 75,227 + 12,197 = ...
7. 92,891 + 85,472 = ...
8. 51,872 + 90,322 = ...
9. 11,177 + 96,889 = ...
10. 82,819 + 66,558 = ...
11. 144,705 + 48,455 = ...
12. 90,322 + 79,305 = ...
13. 704,755 + 84,932 = ...
14. 842,941 + 99,761 = ...
15. 28,323 + 6,433 = ...
16. 91,929 + 97,648 = ...
17. 51,810 + 4,963 = ...
18. 48,825 + 14,931 = ...
19. 82,777 + 54,237 = ...
20. 86,270 + 91,810 = ...

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Q1: Find the result of the following:

1. 67,136 − 24,951 = ...
2. 92,975 − 71,180 = ...
3. 46,712 − 25,221 = ...
4. 878,314 − 723,006 = ...
5. 149,463 − 25,402 = ...
6. 17,743 − 5,124 = ...
7. 65,395 − 3,394 = ...
8. 40,000 − 46 = ...
9. 15,858 − 12,623 = ...
10. 97,631 − 72,664 = ...
11. 31,184 − 7,807 = ...
12. 43,613 − 35,999 = ...
13. 56,082 − 25,804 = ...
14. 76,754 − 5,399 = ...
15. 30,681 − 1,034 = ...
16. 36,446 − 12,587 = ...
17. 67,912 − 54,200 = ...
18. 58,138 − 33,817 = ...
19. 98,969 − 32,478 = ...
20. 83,773 − 1,561 = ...

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Q3: Round to the nearest 10 to estimate results:

(a)

64,152	⟶	.....
− 3,275	⟶	− .....
.....		.....

(b)

73,782	⟶	.....
+ 21,157	⟶	+ .....
.....		.....

(c)

77,239	⟶	.....
− 63,617	⟶	− .....
.....		.....

(d)

28,165	⟶	.....
+ 38,951	⟶	+ .....
.....		.....

Q4: Round to the nearest 100 to estimate results:

(a)

57,164	⟶	.....
− 26,807	⟶	− .....
.....		.....

(b)

23,567	⟶	.....
+ 65,333	⟶	+ .....
.....		.....

(c)

82,778	⟶	.....
− 47,815	⟶	− .....
.....		.....

(d)

49,744	⟶	.....
+ 69,889	⟶	+ .....
.....		.....

(e)

27,004	⟶	.....
− 13,515	⟶	− .....
.....		.....

(f)

4,269	⟶	.....
+ 37,309	⟶	+ .....
.....		.....

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Q5: Answer the following:

1. The bakery made 2,548 cupcakes. He sold 1,967 of them.
   How many cupcakes are left ?

   .....

2. The school library has 2,735 books for borrow.
   During one week, 975 books were borrowed. How many books are there ?

   .....

3. Mariam has 942 marbles. Her sister Judy has 46 marbles.
   How many more marbles does Mariam have ?

   .....

4. Ahmed has 7,392 L.E, He spends 2.575 L.E. in the tech store
   How much money does Ahmed have now ?

   .....

5. A garden has 12,255 banana trees and 4,558 apple trees.
   How many trees are there in this garden ?

   .....

6. A school has 4,540 pupils, 2,975 of them are boys.
   How many girls are in the school ?

   .....

7. Murad had 4,537 pounds. His father gave him 1,380 pounds as a present.
   How much does Murad have now ?

   .....

8. Hana had 1,250 LE, she bought some clothes for 625 LE.
   How much money is left with Hana?

   .....

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Multiplying & Division

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Remember

We can multiply and divide using the multiplication table.

Division helps us find how many equal groups or how many are in each group.

Multiplication Table (1–12)

1 : 1	2	3	4	5	6	7	8	9	10	11	12
2 : 2	4	6	8	10	12	14	16	18	20	22	24
3 : 3	6	9	12	15	18	21	24	27	30	33	36
4 : 4	8	12	16	20	24	28	32	36	40	44	48
5 : 5	10	15	20	25	30	35	40	45	50	55	60

...

Multiplication (using times table)

1) $7 \times 6 = 42$
2) $9 \times 8 = 72$
3) $12 \times 5 = 60$
4) $4 \times 11 = 44$
5) $3 \times 12 = 36$
6) $8 \times 9 = 72$
7) $6 \times 10 = 60$
8) $11 \times 7 = 77$
9) $5 \times 12 = 60$
10) $2 \times 12 = 24$

Division (using times table)

1) $42 \div 6 = 7$
2) $72 \div 8 = 9$
3) $60 \div 5 = 12$
4) $44 \div 11 = 4$
5) $36 \div 3 = 12$
6) $72 \div 9 = 8$
7) $60 \div 10 = 6$
8) $77 \div 7 = 11$
9) $60 \div 12 = 5$
10) $24 \div 2 = 12$

How Division Works

- $12 \div 3 = 4$ means 12 shared into 3 equal groups. Each group has 4.

$12 \div 3 = 4$

Division Property

If $a \times b = c$, then:

- $c \div a = b$
- $c \div b = a$

Example:

$6 \times 7 = 42$

$42 \div 6 = 7$ $\quad$ $42 \div 7 = 6$

Properties of Multiplication

1 Commutative Property

Change the order, the answer stays the same.

Example:

$7 \times 6 = 6 \times 7$

$42 = 42$

2 Associative Property

Change the grouping, the answer stays the same.

Example:

$(2 \times 3) \times 4 = 2 \times (3 \times 4)$

$6 \times 4 = 2 \times 12$

$24 = 24$

3 Distributive Property

Multiply a number by a sum by breaking it into parts.

$6 \times (4 + 3) = 6 \times 4 + 6 \times 3$

$6 \times 7 = 24 + 18$

$42 = 42$

4 Zero Property

Any number multiplied by 0 equals 0.

$9 \times 0 = 0$

$0 \times 15 = 0$

$0 \times 0 = 0$

Multiplication of a 2-Digit Number by a 1-Digit Number (Using Distributive Property)

We break the 2-digit number into tens and ones, then multiply each part and add.

Example:

$23 \times 4 = (20 \times 4) + (3 \times 4)$

$= 80 + 12$

$= 92$

Practice Examples:

1) $34 \times 6 = (30 \times 6) + (4 \times 6) = 180 + 24 = 204$
2) $47 \times 3 = (40 \times 3) + (7 \times 3) = 120 + 21 = 141$
3) $56 \times 5 = (50 \times 5) + (6 \times 5) = 250 + 30 = 280$
4) $82 \times 7 = (80 \times 7) + (2 \times 7) = 560 + 14 = 574$
5) $91 \times 8 = (90 \times 8) + (1 \times 8) = 720 + 8 = 728$

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Q1: Choose the correct answer:

1. $9 \times 13 = (9 \times 10) + (9 \times \ldots\ldots\ldots)$

   (a) 2 (b) 3 (c) 4 (d) 9

2. $8 + 8 + 8 + 8 + 8 + 8 + 8 = \ldots\ldots\ldots\ldots$

   (a) 7×8 (b) $8 + 7$ (c) 8×8 (d) 7×7

3. $9 \times 0 = 9 - \ldots\ldots\ldots$

   (a) 0 (b) 1 (c) 9 (d) otherwise

4. $4 + 6 = \ldots\ldots\ldots\ldots$

   (a) $2 + 5$ (b) 10×2 (c) 2×5 (d) 4×6

5. $9 + 9 = \ldots\ldots\ldots\ldots .$

   (a) $3 \times 3 \times 3$ (b) $6 + 6$ (c) 6×3 (d) 9×3

6. $5 + 5 + 5 \bigcirc 4 \times 4$

   (a) > (b) < (c) = (d) otherwise

7. $8 + 8 + 8 + 8 + 8 = 4 \times \ldots\ldots\ldots\ldots .$

   (a) 8 (b) 5 (c) 10 (d) 4

8. $6 \times \ldots\ldots\ldots = 4 \times 9$

   (a) 5 (b) 6 (c) 7 (d) 8

9. $9 + 9 + 9 + 9 = 6 \times \ldots\ldots\ldots$

   (a) 9 (b) 6 (c) 4 (d) 8

10. $6 + 0 = 3 \times \ldots\ldots\ldots .$

    (a) 0 (b) 2 (c) 6 (d) 9

11. $9 \times 7 = (10 \times 7) - \ldots\ldots\ldots\ldots$

    (a) 0 (b) 1 (c) 9 (d) 7

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12 5 × 6 × ..... = 3 × 100

(a) 3 (b) 30 (c) 10 (d) 300

13 400 × ..... = 2,000

(a) 500 (b) 50 (c) 10 (d) 5

14 ..... × ..... = (3 × 2) + (3 × 4)

(a) 6 × 6 (b) 3 × 8 (c) 3 × 6 (d) 9 × 8

15 4 × 9 = (4 × 5) + (4 × .....)

(a) 45 (b) 9 (c) 4 (d) 5

16 8 × ..... = (8 × 3) + (8 × 7)

(a) 3 (b) 10 (c) 8 (d) 7

17 Forty players are in teams of five, How mony teams are there?

(a) 40 ÷ 5 (b) 40 – 5 (c) 40 + 5 (d) 40 × 5

18 ..... ÷ 2 = 9

(a) 18 (b) 3 (c) 9 (d) 16

19 ..... is a multiple of 2

(a) 18 (b) 3 (c) 9 (d) 201

20 ..... is a common multiple of 5 and 10

(a) 15 (b) 30 (c) 45 (d) 5

21 8 × 14 =(8 × .....) + (8 × 8)

(a) 10 (b) 4 (c) 6 (d) 2

22 3 groups of 5 ◯ 5 groups of 3

(a) > (b) < (c) = (d) otherwise

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Q2: Complete the following:

1. ..... × 10 = 4 × 5 × 10
2. ..... ÷ 8 = 7
3. 45 ÷ 9 = ...
4. 5 × 8 = 10 × .....
5. 900 × ..... = 63,000
6. ..... ÷ 6 = 2
7. 9 × 5 = (10 × 5) – .....
8. 6 × 5 = ... × 10
9. 40 × 40 = ...
10. 6 × ..... = 4 × 9
11. 5 × 8 × ..... = 4 × 100
12. 72 ÷ ..... = 9
13. ..... ÷ 7 = 6
14. 8 + 8 + 8 + 8 + 8 = 10 × .....
15. 3 × 9 = (..... × 2) + (..... × 7)
16. 32 ÷ 4 = ...
17. 7 × 3 = ... + ... + ...
18. 72 ÷ 8 = ...
19. 20 × ..... = 10,000
20. 30 ÷ 10 = ...
21. 6 × 2 = ... × 6
22. 3 + 3 + 3 + 3 + 3 + 3 = ... × .....
23. 8 + 8 + 8 = 4 × .....
24. 35 ÷ ..... = 5
25. 70 × ..... = 14,000
26. 8 × 0 = ...
27. 7 + 7 + 7 + 7 + 7 = ... × .....
28. ..... ÷ 4 = 2
29. 5 × 12 = ... × 6
30. ..... ÷ 7 = 0

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Q3: Answer the following:

1. List the common multiples of 4 and 5, up to 50:

.....

2. List the first 20 multiples of 4:

.....

3. Malek runs 3 miles each day. How many miles does he run in 7 days?

.....

4. A bag of oranges contains 4 oranges. How many oranges are there in 8 bags?

.....

5. There are 9 erasers in each box. How many erasers are there in 8 boxes?

.....

6. If each pen costs 6LE, how much do 8 pens cost?

.....

7. There are 25 fish and each crocodile needs to eat 5 fish.
How many crocodiles will we feed?

.....

8. Each bull eats 2 bales of hay each day. If there are 100 bales,
How many bulls can we feed?

.....

9. The price of each book is 8 pounds.
How many books can you buy if you have 40 pounds?

.....

10. Farida has 20 apples ond wants to put them in 5 plates.
How many apples ore there in each plate ?

.....

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1 Length

Length is a measure of distance.

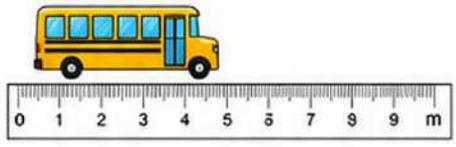
Millimeter (mm)

Used to measure the length of very small objects as the length of an insect.

Centimeter (cm)

Used to measure the length of small objects such as : pencils, books and erasers.

Meter (m)



Used to measure distances and longer lengths such as: buildings and buses.

2 Notes (Conversions)

1 Centimeter (cm) = 10 millimeter (mm)

1 cm = 10 mm

1 Meter (m) = 100 centimeter (cm)

1 m = 100 cm

Examples

- 7 cm = 70 mm (7 × 10 = 70)
- 9 m = 900 cm (9 × 100 = 900)

3 Time

Year > **Week** > **Day** > **Hour** > **Minute** > **Second**

Basic Facts

- A year = 12 months
- A week = 7 days
- A day = 24 hours
- An hour = 60 minutes
- A minute = 60 seconds

Examples

- 3 years = 12 × 3 = 36 months
- 5 weeks = 5 × 7 = 35 days
- 2 days = 24 + 24 = 48 hours
- 3 hours = 60 × 3 = 180 minutes
- 4 minutes = 60 × 4 = 240 seconds

In Summary

Category	Unit	We use it to measure
Length	mm (millimeter) cm (centimeter) m (meter)	• mm → very small objects • cm → small objects • m → longer distances and big things
Time	year, week, day, hour, minute, second	We measure time in order from longest (year) to shortest (second).

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Q1: Complete the following:

1. 1 m = ... cm
2. 54 cm = ... mm
3. 8 cm = ... mm
4. 10 mm = ... cm
5. 300 cm = ... m
6. 5 m = ... cm
7. 900 mm = ... cm
8. 700 cm = ... m
9. 9 m = ... cm
10. 90 mm = ... cm

Q2: Complete the following:

1. 1 hour = ... seconds
2. 1 week = ... day
3. 1 day = ... hours
4. 1 year = ... months
5. 3 hours = ... seconds
6. 1 minute = ... seconds
7. 3 weeks = ... day
8. 3,000 ml = ... Litre
9. 2 Litre = ... ml
10. 3 hours = ... minutes

Q3: Complete the following:

1. 3 m + 75 cm = ... cm + ... cm = ... cm
2. 7 m + 21 cm = ... cm + ... cm = ... cm
3. 10 m + 12 cm = ... cm
4. 6 cm + 7 mm = ... mm
5. 10 cm + 9 mm = ... mm
6. 13 m + 13 cm = ... cm
7. 1 m + 1 cm = ... cm

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Q4: Complete the following:

1. 245 cm = ... m + ... cm
2. 372 cm = ... m + ... cm
3. 302 mm = ... cm + ... mm
4. 572 cm = ... m + ... cm
5. 87 mm = ... cm + ... mm

Q4: Arrange the following in ascending order:

1. 5 cm , 50 m , 500 mm , 550 cm

   The order: .....

2. 2 hours , 30 seconds , 1 day , 30 minutes

   The order: .....

3. 9 m , 99 cm , 9 cm , 99 mm

   The order: .....

Q4: Arrange the following in descending order:

1. 70 mm , 70 cm , 77 mm , 77 cm

   The order: .....

2. 2 m , 250 cm , 700 mm , 8 cm

   The order: .....

3. 3 years , 3 hours , 3 days , 3 minutes

   The order: .....

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Remember

Perimeter is the distance around the outside of a shape.

We go around the shape.

Area is the space inside the shape.

We fill the inside of the shape.

Types of Polygons

A **polygon** is a closed shape made of straight sides.

Triangle	Quadrilateral	Pentagon	Hexagon	Heptagon	Octagon
3 sides 3 vertices	4 sides 4 vertices	5 sides 5 vertices	6 sides 6 vertices	7 sides 7 vertices	8 sides 8 vertices

Perimeter of Rectangles and Squares

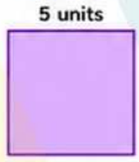
Rectangle

Add all the sides around the shape.

$P = 6 + 3 + 6 + 3$

$= 18$ units

Square



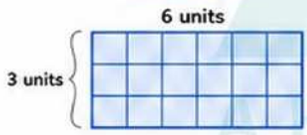
Add all the sides around the shape.

$P = 5 + 5 + 5 + 5$

$= 20$ units

Area Using Square Units

Rectangle

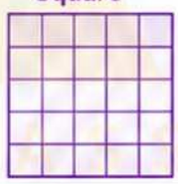


3 rows × 6 columns

= 18 square units

Area = 18 square units

Square



5 rows × 5 columns

= 25 square units

Area = 25 square units

Area Using Length and Width (Rectangles and Squares)

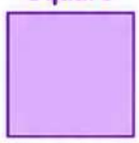
Rectangle

Area = length × width

Area = 7 × 4

Area = 28 square units

Square



Area = side × side

Area = 5 × 5

Area = 25 square units

Quick Practice

1) Find the perimeter.

a)

$P = 8 + 4 + 8 + 4$

$= 24$ units

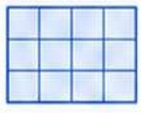
b)

$P = 6 + 6 + 6 + 6$

$= 24$ units

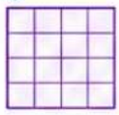
2) Find the area by counting square units.

a)



Area = 15 square units

b)



Area = 16 square units

3) Find the area using length and width.

a)

length = 9 units

width = 3 units

Area = 9 × 3 = 27 square units

b)

side = 7 units

Area = 7 × 7 = 49 square units

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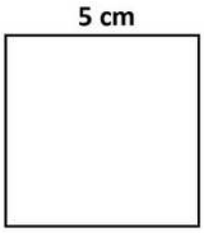
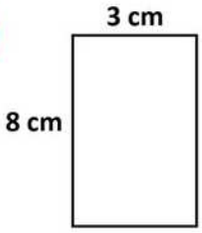
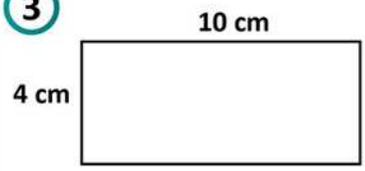
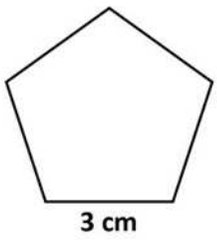
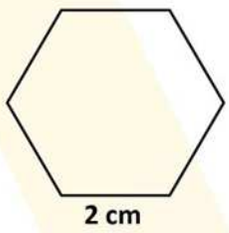
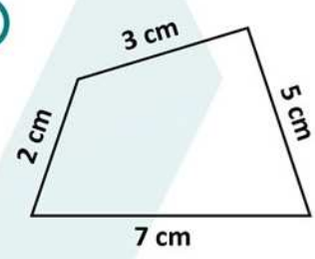
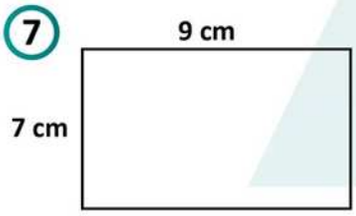
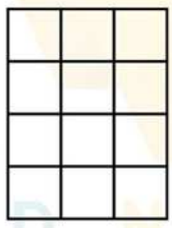
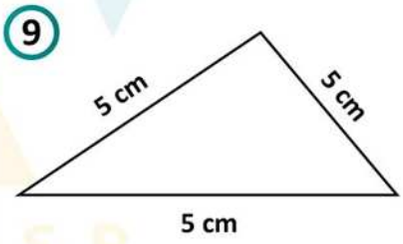
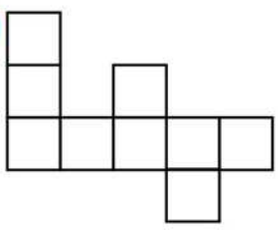
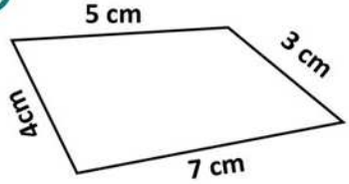
Q1: Calculate the perimeter of each of the following:

1 	2 	3 
Perimeter:	Perimeter:	Perimeter: .....
4 	5 	6 
Perimeter:	Perimeter:	Perimeter: .....
7 	8 	9 
Perimeter:	Perimeter:	Perimeter: .....
10	11 	12 
Perimeter:	Perimeter:	Perimeter: .....

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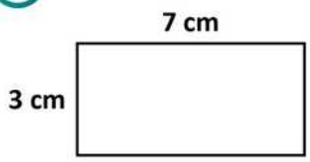
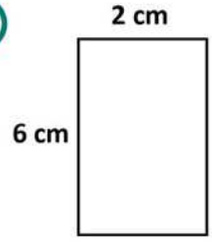
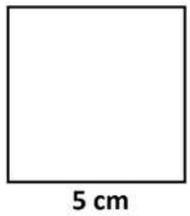
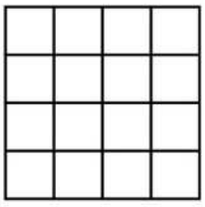
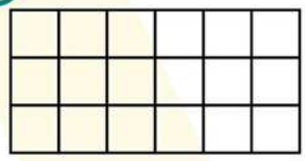
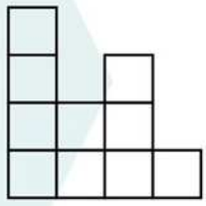
Q2: Calculate the area of each of the following:

1 	2 	3 
Area:	Area:	Area: .....
4 	5 	6 
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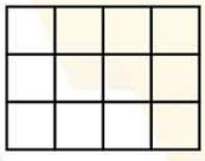
7	8 	9
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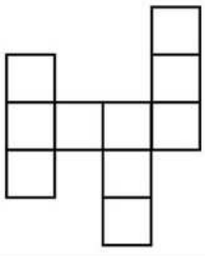
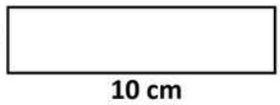
10 	11	12 
Area:	Area:	Area: .....

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Q3: Complete the following:

1. The polygon that has 5 angles is called ..... .
2. The quadrilateral has ..... sides.
3. The area of rectangle of length 6 cm and width 4 cm is ..... square cm
4. The perimeter of square of side length 5 cm is ..... cm
5. The perimeter of rectangle of length 10 cm and width 7 cm is ..... cm
6. The side length of square whose area is 25 square cm is ..... cm
7. The area of square of side length 6 cm is ..... square cm
8. In the parallelogram, each two opposite sides are .....
9. The side length of square whose perimeter is 12 cm is ..... cm
10. A square whose area is 9 square cm, then its perimeter is ..... cm
11. The side length of square whose area is 16 square cm is ..... cm
12. In the square, all sides are ..... and all angles are .....
13. The area of a square with a side length of 8 cm is ..... square cm
14. If the perimeter of a rectangle is 24 cm and its length is 8 cm, then the width of the rectangle is ..... cm.
15. If the perimeter of a square is 24 cm, then its side length is ..... cm
16. If the side length of a square is 36 cm, then its area is ..... square cm.
17. The perimeter of a square with a side length of 9 cm is ..... cm.
18. The area of a rectangle with a length of 6 cm and width 4 cm is ..... cm.

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Q4: Answer the following:

1. The surface of a rectangular table is 4 m long and 3 m wide. What is its area?

.....

2. Farida has some brownies. Length of each brownie is 7 cm and the width is 5 cm. Find the area of the brownies.

.....

3. A book has a length of 20 cm and a width of 15 cm. What is the perimeter of the book ?

.....

4. A rectangular goat farm is 10 meters long and 7 meters wide. What is its area?

.....

5. Jana is buying a cover for her patio table. If the table is 2 m on all sides What is the area of the cover?

.....

6. If the area of a park is 18 square eter and the length of the park is 6 meter. What is the width of the park?

.....

7. Find the cost of fencing of a square whose side is 12 meter , at 20 L.E per meter

.....

8. How wide is a rectangle if the length is 60 cm and the perimeter is 180 cm?

.....

9. Jane orders a party banner for his brother's birthday party. The length of the banner is 70 cm and width is 20 cm. What is the area of the party banner?

.....

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اللهم اجعل هذا العمل خالصًا لوجهك الكريم،

واكتب له القبول والنفع يا رب 🤲

موقع الدكتور محمد رزق معلم الكيمياء التعليمي D.M.RAZK

موقع الدكتور محمد رزق التعليمي

امسح الباركود بالموبيل لتثبيت التطبيق وتحميل كل الملازم مجانا وبسرعه

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Dr.MoRizK